

UNITED STATES PATENT AND TRADEMARK OFFICE

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

09/03/2004

ROBERT E BUSHNELL 1522 K STREET, N.W. SUITE 300 WASHINGTON, DC 200051202 EXAMINER PORTKA, GARY J

ART UNIT PAPER NUMBER

2188

DATE MAILED: 09/03/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/931,125	09/16/1997	HAE-SEUNG LEE	P54508	3842

TITLE OF INVENTION: MEMORY SYSTEM FOR IMPROVING DATA INPUT/OUTPUT PERFORMANCE AND METHOD OF CACHING DATA RECOVERY INFORMATION

API	PLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
non	provisional	NO	\$1330	\$300	\$1630	12/03/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fa</u>			
NSTRUCTIONS: This for appropriate. All further cor- ndicated unless corrected by maintenance fee notification	m should be used for trans respondence including the P selow or directed otherwise is.	mitting the ISSUI atent, advance ord in Block I, by (a)	E FEE and PU lers and notific specifying a r	JBLICATION FEE (if requestion of maintenance fees whenever correspondence address	ired). Blocks I through 5 sh will be mailed to the current of ; and/or (b) indicating a separ	ould be completed where correspondence address as rate "FEE ADDRESS" for
	E ADDRESS (Note: Use Block 1 for a	any change of address)		Note: A certificate of Fee(s) Transmittal. The papers. Each addition have its own certificat	mailing can only be used for a certificate cannot be used for all paper, such as an assignment of mailing or transmission.	r domestic mailings of the or any other accompanying nt or formal drawing, must
ROBERT E BUS 1522 K STREET, N WASHINGTON, I	HNELL N.W. SUITE 300			Ce I hereby certify that the States Postal Service addressed to the Mat transmitted to the USI	rtificate of Mailing or Transi his Fee(s) Transmittal is being with sufficient postage for firs il Stop ISSUE FEE address PTO (703) 746-4000, on the de	mission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED I	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/931,125	09/16/1997		HAE-SEUN	IG LEE	P54508	3842
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nonprovisional	NO	\$1330		\$300	\$1630	12/03/2004
EXAM	IINER	ART UN	т	CLASS-SUBCLASS		
PORTKA	, GARY J	2188		711-114000		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON TAXABLE PRINTED PRINTED ON TAXABLE PRINTED PRIN			(1) the nam or agents OI (2) the name registered at 2 registered listed, no na	ng on the patent front page, I es of up to 3 registered pate R, alternatively, e of a single firm (having as ttorney or agent) and the nar patent attorneys or agents. I ume will be printed. (print or type)	a member a 2 nes of up to f no name is 3	
(A) NAME OF ASSIGN		(В) RESIDENCE	E: (CITY and STATE OR CC	nee is identified below, the d DUNTRY) Corporation or other private gre	
4a. The following fee(s) are			. Payment of F			· · · · · · · · · · · · · · · · · · ·
☐ Issue Fee			A check in	the amount of the fee(s) is e	enclosed.	
	small entity discount permitte	ed)	Payment by credit card. Form PTO-2038 is attached.			
Advance Order - # of Copies			The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
a. Applicant claims S	(from status indicated above	37 CFR 1.27.			ALL ENTITY status. See 37 C	
The Director of the USPTO NOTE: The Issue Fee and F interest as shown by the rec	is requested to apply the Issue Publication Fee (if required) words of the United States Pate	ue Fee and Publica will not be accepted ent and Trademark	tion Fee (if any I from anyone Office.	or to re-apply any previous other than the applicant; a repair to the control of the contro	sly paid issue fee to the applica gistered attorney or agent; or the	ation identified above. he assignee or other party in
Authorized Signature			Date			
Typed or printed name			Registration No.			
This collection of informati an application. Confidentia submitting the completed a this form and/or suggestion Box 1450, Alexandria, Virg Alexandria, Virginia 22313	on is required by 37 CFR 1.3 lity is governed by 35 U.S.C pplication form to the USPT s for reducing this burden, sl ginia 22313-1450. DO NOT -1450.	11. The information 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR C	on is required to 1.14. This colled depending upon the Chief Inform COMPLETED	o obtain or retain a benefit by ection is estimated to take 12 on the individual case. Any of ation Officer, U.S. Patent an FORMS TO THIS ADDRES	the public which is to file (an 2 minutes to complete, includit comments on the amount of ti d Trademark Office, U.S. Dep SS. SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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ROBERT E BUSHNELL			PORTKA, GARY J	
1522 K STREET, N.W. SUITE 300 WASHINGTON, DC 200051202		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 200031202			2188	

DATE MAILED: 09/03/2004

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 222 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 222 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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7590 09/03/2004 ROBERT E BUSHNELL 1522 K STREET, N.W. SUITE 300 WASHINGTON, DC 200051202			EXAMINER		
			PORTKA, GARY J		
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Wildling Con,	0 2 2 0 0 0 1 1 0 2		2188	<u> </u>	

DATE MAILED: 09/03/2004

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because an increase in fees effective on October 1, 2004 is anticipated. See Revision of Patent Fees for Fiscal Year 2005; Proposed Rule, 69 Fed. Reg. 25861, 25863, 25864 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is proposed to be amended by revising paragraphs (a) through (c) to read as set forth below. As stated above, the final fee may be a different amount, and applicant should check the WEB site given above when paying the fee.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))......\$245.00

By other than a small entity.....\$490.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))......\$325.00

By other than a small entity......\$650.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.